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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,327	. 05/09/2005	Stefano Ambrosius Klinke	112740-1075	4925
29177 BELL, BOYD	29177 7590 09/24/2007 BELL, BOYD & LLOYD, LLP		EXAMINER	
P.O. BOX 1135			JONES, DANELLE E	
CHICAGO, IL	60690		ART UNIT	PAPER NUMBER
			2626	
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			MAIL DATE	DELIVERY MODE
			09/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/534,327	KLINKE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Danelle E. Jones	2626			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 09 M	<u>ay 2005</u> .				
,					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 7-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ☑ Claim(s) 7-12 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>5/9/2005</u>. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Information Disclosure Statement

The listing of references in the Search Report is not considered to be an information disclosure statement (IDS) complying with 37 CFR 1.98. 37 CFR 1.98(a)(2) requires a legible copy of: (1) each foreign patent; (2) each publication or that portion which caused it to be listed; (3) for each cited pending U.S. application, the application specification including claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion, unless the cited pending U.S. application is stored in the Image File Wrapper (IFW) system; and (4) all other information, or that portion which caused it to be listed. In addition, each IDS must include a list of all patents, publications, applications, or other information submitted for consideration by the Office (see 37 CFR 1.98(a)(1) and (b)), and MPEP § 609.04(a), subsection I. states, "the list ... must be submitted on a separate paper." Therefore, the references cited in the Search Report have not been considered. Applicant is advised that the date of submission of any item of information or any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the IDS, including all "statement" requirements of 37 CFR 1.97(e). See MPEP § 609.05(a).

1. The information disclosure statement filed 5.9.2005 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other

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information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 7-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Jax et al. "Wideband Extension of Telephone Speech Using a Hidden Markov Model."

Regarding **claim 7**, Jax et al. discloses a communication device, comprising: a bandwidth expansion device for expanding a bandwidth of a narrowband speech signal at its low-frequency and/or high-frequency end by synthesis of at least one frequency band contained within said narrowband speech signal (see Introduction, paragraph 4);

and a memory unit, communicatively coupled to said bandwidth expansion device, wherein said memory device stores a reference table that contains at least one parameter value for the bandwidth expansion for at least two net bit rates of the narrowband speech signal (see Introduction, paragraph 3).

Regarding **claim 8,** Jax et al. discloses the communication device of claim 7, wherein the reference table contains data relating to the energy in a synthesized

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frequency band and of a spectral structure of the synthesized frequency band (see 3.1 Features, paragraph 1).

Regarding claim 9, Jax et al. discloses a method for expanding a bandwidth of a narrowband speech signal for a communication terminal, comprising the steps of: a) detecting a net bit rate of the narrowband speech signal of the communication terminal (see Introduction paragraph 3);

- b) accessing a memory that contains a reference table which includes associations between at least two net bit rates and parameter values for bandwidth expansion, in order to determine the at least one parameter value which is suitable for the detected net bit rate (see Introduction, paragraph 3);
- c) expanding the bandwidth by means of a bandwidth expansion device on the basis of the parameters determined for a current bit rate in step b) (see Introduction, paragraph 4).

Regarding claim 10, Jax et al. discloses the method according to claim 9, wherein the reference table takes account, as parameters, of the energy of a synthesized frequency band, and a spectral structure of the synthesized frequency band (see 3.1 Features, paragraph 1).

Regarding claim 11, Jax et al. discloses the method according to claim 10, wherein the energy of the synthesized frequency band decreases as the net bit rate decreases (see Alogrithm, paragraph 2).

Regarding claim 12, Jax et al. discloses the method according to claim 10,

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wherein the spectral structure of the synthesized frequency band takes account of the probability of occurrence of artifacts at specific frequencies in the narrowband speech signal (see 3.2.1 Observation Probabilities).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Danelle E. Jones whose telephone number is 571-270-1241. The examiner can normally be reached on M-F 7:30am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DJ

1/14/2007

RICHEMOND DORVIL
SUPERVISORY PATENT EXAMINER